apgil



S.O X-SUPER STAR XHD

S.O X-SUPER STAR XHD is high performance, high speed, heavy-duty gasoline and diesel engine oil formulated with highly refined mineral base oils and select additives to enhance oxidation stability, protection against wear and corrosion.

S.O X-SUPER STAR XHD is recommended for both heavy-duty gasoline and diesel engines such as passengger cars, heavy duty vehicles, commercial trucks, construction machineries as well as high speed marine diesel engines, burning low sulphur fuels.

- High thermal and high oxidation stability
- Improved anti-wear property
- Good protection against engine deposits and corrosion
- Promotes engine cleanliness Prolongs engine life

15W/40 20W/50

14.7

134

210

High thermal and high oxidation stability

protection against wear and corrosion.

 Improved anti-wear property Good protection against engine deposits and corrosion

speed marine diesel engines, burning low sulphur fuels.

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Kinematic Viscosity, cSt

ASTM D445 46

Viscosity Index ASTM D2770 105 97

Flash Point (COC), oC ASTM D92 210 230

Pour Point, oC ASTM D97 -15 TBN, mgKOH/gm ASTM D2896 16

ASTM D445 7.3 11.3 14.5

 Promotes engine cleanliness Prolongs engine life



5.0 X-SUPER DIESELUBE CI-4

S.O X-SUPER DIESELUBE CI-4 are super premium quality diesel engine oils formulated for severe duty diesel engines with EGR emission systems including Euro IV engines. The oils possess improved high temperature oxidation stability and corrosion protection, enhanced dispersancy and soot controlling capability under high temperatures.

S.O X-SUPER DIESELUBE CI-4 are recommended for use in high speed four stroke diesel engines with EGR emission treatment systems. It is suitable for all kinds of European diesel engines both onhighway and off-highway, running on high and low sulphur diesels These oils can also be used for gasoline engines requiring API SL grade oils.

- Excellent dispersancy and detergency properties
- Outstanding oxidation stability
- Effective control over high temperature piston deposits Protect engine against wear, corrosion
- Keep engine clean Lower exhaust emission

Prolong engine life



ENGINE OIL



SAE GRADE		10W/30	15W/40	20W/50
Kinematic Viscosity, ct	St			
@40°C	ASTM D445	79	119	165
@100°C	ASTM D445	11.7	15.5	18.5
Viscosity Index	ASTM D2770	140	136	125
Flash Point (COC), oC	ASTM D92	210	220	225
	ASTM D97	-36	-25	-25
TBN, mgKOH/gm	ASTM D2896	16	16	16

PRODUCT DATA SHEET

5.0 MARINE OIL DF-HD

Viscosity Index

Flash Point (COC), oC ASTM D92

Pour Point, oC ASTM D97

TBN, mgKOH/gm ASTM D2896

S.O MARINE OIL DF-HD are heavy duty lubricating oils for marine diesel engines. The oils possess good acid neutralisation, thermal oxidation stability, anti-wear and anticorrosion properties.

ASTM D445

ASTM D445

ASTM D2770

S.O MARINE OIL DF-HD are recommended for crankcase lubrication of all types of trunk piston engines burning low sulphur distillate fuels.

- Excellent detergency and dispersancy Good water shedding property
- Superior oxidation and thermal stability
- Keep engine clean Protect engine against wear and corrosion





- Outstanding wear, rust and corrosion protection Superior oxidation stability Excellent thermal and chemical stability
- Excellent filterability Good foam resistance

5.0 HYDROIL 55

SEMI-SYNTHETIC ANTI-WEAR HYDRAULIC OILS

S.O HYDROIL SS are semi-synthetic hydraulic oils which are formulated with premium low zinc

anti-wear additive, possess excellent oxidation stability, anti-wear, anti-corrosion and anti-foam

S.O HYDROIL SS are universal types of oils recommended for use in all types of hydraulic system,

especially where high pressure and greater temperature variations encounter. The oils may also be used in moderately loaded gear boxes that do not require an extreme pressure gear lubricants.



SAE GRADE Kinematic Viscos	itu cSt	32	46	68
@40°C @100°C Viscosity Index Flash Point (COC Pour Point, oC	ASTM D445 ASTM D445 ASTM D2770 ASTM D92	30 5.5 118 220 -15	46 7.1 113 225 -12	68 8.8 106 230 -12

S.O GEAR OIL EP FS

FULLY-SYNTHETIC GEAR OIL

S.O GEAR OIL EP FS is a fully synthetic extreme pressure industrial gear oil containing anti-oxidation, anti-corrosion, anti-wear and anti-foam inhibitors. The oil formulated with PAOs possesses excelent high and low temperature properties.

S.O GEAR OIL EP FS is recommended for lubrication of all types of industrial gears both enclosed and open under extreme conditions. Also suitable for system containing worm gears, bearings, slidingparts, operating at high temperature or heavy loads.

OTHERS SINO SERIES

Automatic Transmission Fluid

Gasoline Engine Oils

Diesel Engine Oils

Gas Engine Oils

Railways Oils

Gear Oils

Brake Fluid

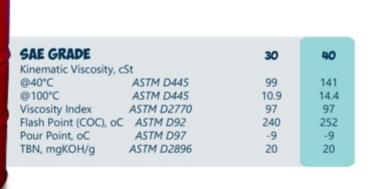
Anti-Freeze

Mould Oils

Longer service life

- Excellent high temperature thermal and oxidation stability
- Good anti-rust and anti-corrosion properties Outstanding protection against wear and shock
- Superior load-carrying capability









Sulfur (%)

>0.03

< 0.03

< 0.03

GROUP I MINERAL BASE OIL

GROUP II SYNTHETIC BLEND BASE OIL

API BASE OIL CATEGORIES

Base Oil Categories

Group I (solvent refined)

Group II (hydrotreated)

Group III (hydrocracked

EXCEED GROUP II HYDROCRACKED BASE OIL

GROUP III HIGH VISCOSITY INDEX (HVI) SYNTHETIC BASE OIL

>90

GROUP IV

Marine Engine Oils POLY ALPHA OLEFIN (PAO) SYNTHETIC BASE OIL Marine Outboard Engine Oils Stem Tube Oils Wire Rope Oils Chain Oils Circulating Oils Compressor Oils

Flushing Oils Saturates (%) Viscosity Index Gear Oils <90 80 to 120 and/or Hydraulic Oils Machinary Oils >90 and 80 to 120

>120

Paper Machine Oils



Steam Cylinder Oils

Neat Cutting Oils

Soluble Cutting Oils

Heat Transfer Oils

Pneumatic Oils

Quenching Oils

Refrigation Oils

Transformer Oils

White Oils

Grease

Sideway Oils

Vacuum Pump Oils

Rubber Process Oils

Rust Preventive Fluid

Stamping & Forming Oils

Textile Oils

Turbine Oils







Not singapore oil

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